

College of Dental Sciences & Research Centre

Maa Kamla Charitable Trust

Ref. No. :

Date :

2.6.1 – SUBJECT LEARNING OUTCOME

ORAL MEDICINE AND RADIOLOGY

The cornerstone of any healthcare expertise is the ability to diagnose. This requires obtaining a detailed history of the patient, conducting meticulous clinical examination, and combining this information, to arrive at a proper differential diagnosis, and systematically analyze radiographic images, in order to successfully formulate a treatment plan, since the treatment critically depends on accurate diagnosis.

Our department offers training in Undergraduate and Postgraduate courses apart from being actively involved in various scientific research activities, and has a significant diversity in curricular responsibility which is reflected in our program. Students learn through lectures, seminars, demonstrations, videos and clinical practice, established by evidence-based medicine.

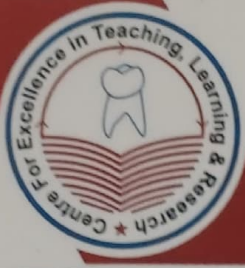
In the Oral Medicine aspect, students learn about a range of lesions of the oral mucosa and jawbones, including oral manifestations of systemic diseases. They also learn how to take an appropriate history, determine diagnoses, and formulate dental treatment for medically compromised patients. Students are exposed to the general approaches to treat oral diseases and the pros and cons of different treatments.

Our department is well-equipped with state-of-the-art facilities including Dental X-ray Units, Radio-visiography (RVG), Digital Panoramic and Cephalometric imaging machine, Cone-beam Computed Tomography (CBCT) machine and a clinical laboratory incorporated for various investigations.

Oral Cancer screening with vital staining and chemiluminescence etc., Biopsy, Tobacco cessation initiatives, Implant planning on CBCT, LASER, pharmacologic pain management and non-pharmacologic pain management like TENS etc. and usage of intra-lesional steroids for various disorders are some of the areas in which this specialty trains its students.

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Research Centre, Ahmedabad



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Department of Prosthodontics, Crown & Bridge

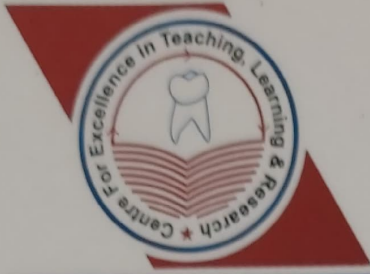
Prosthodontics, crown & bridge and Implant dentistry is one of the dental speciality which deals with replacement of teeth by removable, fixed and implant supported prosthesis along with missing oral structures.

This subject is taught on models in 1st and 2nd year. From 3rd year students start treating patients. Materials which are used in all branches of dentistry are also taught in this department.

Department of prosthodontics is fully equipped with all modern instruments and materials. All kind of different prosthodontics treatment modalities are being carried out with great care and precision by experienced prosthodontist. Students are encouraged to perform research activities in different aspects of prosthodontics in this department.

At the department of prosthodontics, have a vision of overall development of student that inculcates best of the knowledge, attitude and technical expertise to serve the society. Here students are encouraged to follow ethics of medical practice and to perform evidence based dentistry.

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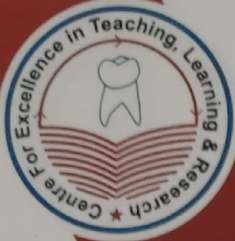
Department of Periodontology and Oral Implantology

The department of Periodontology and Oral Implantology is engaged in the treatment of problems associated with gums and poor oral hygiene. Undergraduates and Postgraduates gain knowledge about various treatments and procedures like scaling, root planing, splinting, abscess drainage and various surgeries such as flap surgeries, micro surgeries, laser assisted surgeries, implant surgeries etc. through a training program comprising of both theory and practical knowledge.

The Department is equipped with facilities like modern dental chairs, ultrasonic scalers, piezosurgery unit, laser unit, various types of implant kits. The department also has various GTR membranes and Bone grafts. Critical researches encompass immunology, periodontal plastic surgery, periodontal regeneration, periodontal medicine and dental implants.

DEAN

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Department of Oral and Maxillofacial Surgery

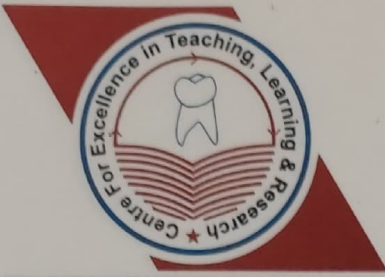
Oral and maxillofacial surgery is the branch of dentistry which deals with the diagnosis and surgical treatment of various diseases, injuries, defects and deformities of head and neck region. It also involves various procedures involving both functional and aesthetics region of hard and soft tissue of oral and maxillofacial region. Hence the branch covers the great deal of territory. In nutshell, Oral and maxillofacial surgery, a specialty that serves from dental chair to the operation theatre.

This department performs a wide variety of all different type of procedures not only restricted to oral cavity but also the entire maxillofacial region. These includes routine extractions, surgical removal of compromised teeth, third molar surgeries, pathologies, TMJ problems etc. as per indicated in a well-equipped operation theatre with latest updated instruments and infrastructure.

Each branch develops and improves as with passing years as does our department also. It also carries out all types of implant procedures, aesthetic improvement procedures, PRP treatment and many more.

The U.G. students carry out procedures with standard protocols that not only involves giving Local anesthesia by different techniques and intra-alveolar method of extraction but also assists minor surgical procedures carried out by P.G.s and staff. They are also supposed to present the seminars and also pre-clinical works. P.G. students carry out minor and major surgical procedures and along with that they are supposed to attend the peripheral rotation postings like E.N.T., Orthopaedics, General Medicine, General Surgery, Emergency, Oncology and Cleft Lip and Palate postings etc.

DEAN
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Ref. No. :

Date :

Dept. of Orthodontics & Dentofacial Orthopedics

The Department of Orthodontics and Dentofacial Orthopedics, focuses on craniofacial growth and the development of the dentition and occlusion, while concentrating on prevention and correction of occlusal anomalies. A solid understanding of orthodontics is an essential prerequisite to planning treatment in children and treating complex malocclusion in adults.

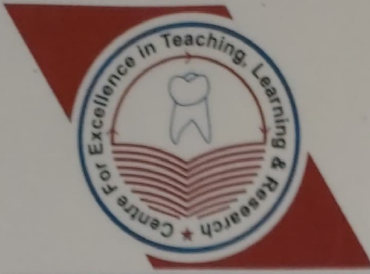
The undergraduate training begins from third year of the BDS program and contains didactic, practical and clinical components. Students learn the art of basic wire bending, examining and diagnosing dental and craniofacial anomalies and are trained in treating mild malocclusions with removable and functional orthodontic appliances.

The postgraduate program covers all aspects of the discipline and emphasizes clinical care and patient satisfaction through advanced diagnosis and treatment techniques with good academic background and extensive clinical training under experienced faculty.

Tracing its roots back to over a decade, the Department of Orthodontics and Dentofacial Orthopaedics today proudly stands as one of the leading pioneers of Orthodontic education in India. The Faculty strives to nurture clinical excellence and to foster both academic and applied research to serve the needs of our ever expanding patient base. Keeping abreast with all the latest developments in our speciality, we provide our students with education of global standards.

With having a multitude of treatment avenues, from Orthognathic surgery to Invisible braces, our department attracts the best and brightest students in the country.

DEAN
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Date :

Dept. of Oral Pathology and Oral Microbiology

Study, diagnosis and treatment of diseases in oral cavity related to teeth, soft tissues and bones and other para-oral structures. Our department focus on teaching students about various tooth morphologies by taking lectures and teaching tooth carving through practicals. Students are taught normal histology by showing slides and didactic lectures about histological aspect of various tooth structure. Oral pathology deals with identification and various cause of diseases. It also investigate cause , processes and effects of these diseases. Practice of oral pathology includes research, diagnosis of the diseases using clinical, radiographic, microscopic, biochemical or other examinations and thus management of patients.

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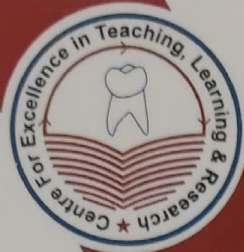
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Dept. of Conservative Dentistry and Endodontics

Conservative Dentistry and Endodontics, is that branch of dentistry which deals with preserving the natural tooth. Just as the name suggests, it conserves the natural tooth structure and restores what is lost by appropriate restorative material. This work is completely fulfilled and justified with all the enthusiasm and ethics in the Department of Conservative Dentistry and Endodontics in our Institute. The foundation is laid from 2nd year UG students. They are being taught about The basics of conservative dentistry with hands-on using plaster and typhodont models. The 3rd year and 4th year UG students perform the basic restorative part, the interns and the BDS Staff members carry out a little advanced restorative part and basics of Endodontics that is Root Canal Treatment, the PG students carry out all the advanced restorative, Endodontics and special cases under the guidance of our esteemed team of faculty members.

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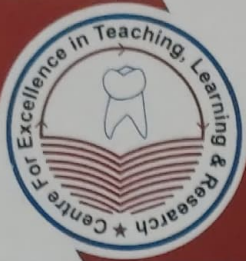
Department of Public Health Dentistry

The department of Public Health Dentistry has been committed to promoting dental care through excellence in teaching the art of prevention. The department has been actively involved in providing comprehensive treatment, education, awareness, counselling and means regarding oral health care to the oppressed and inaccessible sections of the society alongside the masses with due concern to special care groups like school children and specially abled individual.

We are committed to create awareness among the general population about the most common causes of oral diseases and simple self-care practices to prevent them.

We also have a well-equipped, fully functional and state of the art mobile dental unit specially designed to target remote areas. Provision has been made for referral of the patients requiring advanced care to the institution at subsidized rates.

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Dept of Pedodontics

Pediatric Dentistry is an age defined specialty. Teaching in pedodontics gives students the clinical and theoretical qualifications required to maintain the dental health of children and adolescence in a satisfactory manner. This covers the detection, diagnosis, treatment planning, prevention and care of diseases that affect the oral health of children.

The students will have knowledge to

- Human growth and psychological development from pre-conception to adulthood.
 - The aetiology, management and outcomes of the full range of oral diseases ranging from caries to periodontal disease, tooth wear to traumatic dental injuries, hypodontia to developmental dental defects.
 - The individual nature of each child and how their temperament, family and school environments and background can impact on oral health and the delivery of dental care.
 - Childhood illness, congenital disorders and disability, and how these can impact on oral health and dental treatment.
 - Provide the full range of clinical treatment services in the primary, mixed and permanent dentitions.
 - Deliver specialised behavioural and pain management techniques including the administration of local analgesia.
 - Manage children with the full range of medical, physical and intellectual conditions and disorders including those with behavioural challenges (e.g., Autism and ADHD).
 - Advocate for child (oral) health and well-being.

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